

CLAIMS

1. A manufacturing method of high purity copper sulfate, including the steps of dissolving copper sulfate crystals in purified water, performing evaporative concentration thereto, removing the crystals precipitated initially, performing further evaporative concentration to effect crystallization, subjecting this to filtration to obtain high purity copper sulfate, and performing desiccation thereto.
2. A manufacturing method of high purity copper sulfate according to claim 1, wherein the initial pH of the solution in which the copper sulfate was dissolved in purified water is 2 to 4, and the pH of the solution after removing the crystals precipitated initially is 2 or less.
3. A manufacturing method of high purity copper sulfate according to claim 1 or claim 2, wherein 10wt% or more of the initial crystal is removed in relation to the initial input.
4. A manufacturing method of high purity copper sulfate according to any one of claims 1 to 3, wherein the filtration solution after the final filtration is 2 to 40% of the original fluid volume.
5. A manufacturing method of high purity copper sulfate according to any one of claims 1 to 4, wherein the desiccation temperature is 40 to 100°C.
6. High purity copper sulfate having a purity of 99.99wt% or higher, and in which the content of transition metals such as Fe, Cr, Ni is 3wtppm or less.
7. High purity copper sulfate manufactured with the method according to any of claims 1 to 5, wherein a purity is 99.99wt% or higher and in which the content of transition metals such as Fe, Cr, Ni is 3wtppm or less.
8. High purity copper sulfate having a purity of 99.99wt% or higher, and in which the content of Ag, Cl is respectively 1wtppm or less.
9. High purity copper sulfate according to claim 7, wherein the purity thereof is 99.99wt% or higher, and in which the content of Ag, Cl is respectively 1wtppm or less.

10. High purity copper sulfate having a purity of 99.99wt% or higher, and in which the content of alkali metals such as Na, K and alkaline earth metals such as Ca, Mg is respectively 1wtppm or less.
11. High purity copper sulfate according to claim 9, wherein the purity thereof is 99.99wt% or higher, and in which the content of alkali metals such as Na, K and alkaline earth metals such as Ca, Mg is respectively 1wtppm or less.
5
12. High purity copper sulfate having a purity of 99.99wt% or higher, and in which the content of Si containing oxide is 10wtppm or less based on Si
10 conversion.
13. High purity copper sulfate according to claim 11, wherein the purity thereof is 99.99wt% or higher, and in which the content of Si containing oxide is 10wtppm or less based on Si conversion.